

WHAT IS CLAIMED IS:

1. An apparatus, comprising:
a chamber having an inner space; and
an air conditioner for controlling an air
supplied or to be supplied into the inner space of
said chamber, said air conditioner including (i) a
refrigerator using a refrigerant, (ii) a first heat
exchanger for exchanging a heat between the
refrigerant and a coolant, and (iii) a second heat
exchanger for exchanging a heat between an air
supplied or to be supplied into said chamber and the
coolant;
wherein the refrigerant is circulated between
said refrigerator and said first heat exchanger, and
wherein said coolant is circulated between said first
and second heat exchangers.

2. An apparatus according to Claim 1, wherein
said air conditioner further includes an air blower.

3. An apparatus according to Claim 1, wherein
said air conditioner further includes a heater.

4. An apparatus according to Claim 1, wherein
said first heat exchanger comprises an evaporator.

5. An apparatus according to Claim 1, wherein

said refrigerator comprises a compressor and a condenser.

6. An apparatus according to Claim 1, further
5 comprising a reservoir and a pump provided between
said first and second heat exchangers.

7. An apparatus 7. An apparatus according to Claim 1, wherein at
least a portion of said air conditioner is disposed
10 in juxtaposition of said chamber.

8. An apparatus according to Claim 7, wherein
said second heat exchanger is disposed adjacent said
chamber, and wherein said refrigerator and said first
15 heat exchanger are disposed separately from said
chamber.

9. An apparatus according to Claim 1, wherein
the coolant contains one of a water, an anti-freeze,
20 and a fluoride inert liquid.

10. An apparatus according to Claim 1, further
comprising a semiconductor manufacturing equipment.

11. An apparatus 25 11. An apparatus according to Claim 1, further
comprising one of an inspection equipment and a
measuring equipment, disposed inside said chamber.

12. A device manufacturing method, comprising the steps of:

providing a chamber for accommodating therein
5 a manufacturing equipment;

executing an air-conditioning process to an
inside of the chamber; and

executing a device manufacturing process by
use of the manufacturing equipment disposed in the
10 chamber;

wherein said air-conditioning process
includes (i) providing a refrigerator to be used with
a refrigerant, (ii) circulating the refrigerant
between the refrigerator and a first heat exchanger,
15 (iii) circulating a coolant between the first heat
exchanger and a second heat exchanger, (iv) exchanging
a heat between the refrigerant and the coolant, at the
first heat exchanger, and (v) exchanging a heat
between an air supplied or to be supplied into the
20 chamber and the coolant, at the second heat exchanger.

13. A method according to Claim 12, wherein the
air conditioning process further includes heating the
air supplied into the chamber.

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14. A method according to Claim 12, wherein at
least a portion of an air conditioning system for

executing the air-conditioning process is disposed in juxtaposition of the chamber.

15. A method according to Claim 14, wherein the
5 first heat exchanger is disposed adjacent to the
chamber, and wherein the refrigerator and the second
heat exchanger are disposed separately from the
chamber.

10 16. A method according to Claim 12, wherein the
coolant contains one of a water, an anti-freeze, and a
fluoride inert liquid.

15 17. A method according to Claim 12, wherein the
manufacturing equipment comprises a semiconductor
manufacturing equipment.

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